

ABSTRACT

A combustion apparatus that can positively control and generate burnt gas recirculation with a simple structure. The combustion apparatus includes a cylindrical container having a combustion chamber, a close end, and an open end, an inflow passages for supplying combustion air into the combustion chamber in the cylindrical container, and a fuel nozzle for supplying fuel into the combustion chamber in the cylindrical container. A flow of air is formed so as to have a velocity component in a direction of a central axis from the open end to the close end and a velocity component to swirl in a circumferential direction of the annular container. Fuel is injected so as to have a velocity component in the direction of the central axis from the close end to the open end and a velocity component directed radially outward.